Work Orde		170		*83	170*						Page 1
Item ID: Revision ID:	D407-558-04	45		Accept	*N900	<b>1040</b>	1100	)*	Setup St	art <b>*</b> \	IS1*
Item Name:	Single Cargo	Mirror Assembly, 6 inc	h Round						St	op */	IS2*
Start Date: Required Date: Reference:	13/04/2012 27/04/2012	Start Qty: 3.00 Req'd Qty: 3.00	*3* *3*		Cust Item Customer					1	10.17
Approvals:		in: MUS	Date: 12 07 1	3 Tooling: SPC (Y/N):		Date:		Ī	Run Sta St	art *N	R1* R2*
Sequence ID/ Work Center ID	)	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp.
Draw Nbr	Rev	ision Nbr					=	- · · · · · · · · · · · · · · · · · · ·			
DSI 9436	Α								_		
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*110 *11 Small Fab Small Fab		Small Fab  Memo  Assemble as	s per Dwg D206-558	0.00				3	J		FF- 1204-
120 *120* OC		QC5- Inspect part compl	eteness to step on W/O	0.00 0.00 S (7 (cy	1-2			(FA.	(¢)		

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W/O:			WORK ORDER	WORK ORDER CHANGES						
DATE	STEP	PR	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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Part No	);	PAR #:	Fault Category:	NCR: Ye	es No <b>DQ</b>	A:	Date: _			
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NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC		Corrective Action Section B		Verification	Approval				
DATE	STEP	Section A	Initial Action Description Chief Eng Chief Eng		Sign & Date	Section C	Approval Chief Eng	Approvai QC Inspecto			
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Work Order ID 83170 Page 2 April-13-12 10:41:20 AM Item ID: D407-558-045 Accept \*N900040100\* Setup Start Revision ID: Single Cargo Mirror Assembly, 6 inch Round Item Name: **Start Date:** 13/04/2012 Start Qty: 3.00 **Cust Item ID: Required Date:** 27/04/2012 **Req'd Qty:** 3.00 **Customer:** Reference: Run Process Plan: Tooling: Approvals: Date: Date: Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. **Work Center ID** Description **Run Hours** Code Qty Qty Number Stamp 125 Pick Kit 0.00 \*105\* 3 Packaging 0.00 Memo Packaging 130 QC4-100% Inspect kits for completeness \*130\* QC Memo **Quality Control** 140 0.00 Packaging \*110\* Packaging 0.00 Memo Packaging Identify and pack for shipping as per PPP D407-558-045 and DSI 9436 Location: 4

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W/O:			WC	ORK ORDER CHANG	GES					
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DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Sec Action Description Chief Eng	ction B	Sign & Date	Verification Section C		Approval Chief Eng	Approval QC Inspector
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7	Vork Order ID 83170  oril-13-12 10:41:20 AM  em ID: D407-558-045			*83170*							Page 3	
Item ID: Revision ID: Item Name:				Accept	*N900	040	1100	)*	Setup	Start Stop	*NS	•
Start Date: Required Date: Reference:	13/04/2012	Mirror Assembly, 6 incl Start Qty: 3.00 Req'd Qty: 3.00	*3* *3*		Cust Item   Customer:	ID:				жор	*NS2	<b>)*</b>
Approvals:	Process Pla	an:	Date:	Tooling: SPC (Y/N):		ate:	 		Run	Start Stop	*NR	1* 2*
Sequence ID/ Work Center II	<b>D</b>	Operation Description QC21- Final Inspection -	· Work Order Release	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accep Qty	t Rej Qty	•	Reject Ins Number Sta	sp. Imp
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DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	iption Sign Dat		Section C			QC Inspector
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A Comment

**Picklist Print** Page 1 April-13-12 10:41:23 AM Work Order ID: 83170 \*83170\* Parent Item: D407-558-045 \*D407-558-045\* Parent Item Name: Single Cargo Mirror Assembly, 6 inch Round **Start Date:** 13/04/2012 Required Date: 27/04/2012 Start Qty: 3.00 Required Oty: 3.00 Comments: IPP Rev:A 09-01-15 new issue DD verified by:ec IPP Rev:B 10.06.17 added grommet DD verf:EC IPP REV:C 11.01.19 AS PER chg002 DD VERF:EC IPP REV:D 12.04.04 AS PER chg003 DD VERF:EC Component Item ID/ Replacement Mfg/ Bin Primary Last Route Unit of Qty on Oty per Kit Total Qty Date Status Item Name Item ID Purch Item Location Location Seq ID Measure Hand Oty Issued Issued MS35489-67 Purchased No Each 10.0000 GROMMET Location Loc Qty Loc Code ST295 10 111193 10 AN960JD10 NAS1149D0363J Purchased No 110 Each 0.0000 12 FF 12-04-27 121243 Washer D2011-101 Manufactured No 110 Each 49.0000 \*D2011-101\* 6" Mirror Location Loc Qty Loc Code ST226 49 79943 49 D2052 Manufactured 110 16.0000 Each \*\* FF 12-04-27 Location Loc Qty Loc Code GA 16 73052 3 77088 13

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	O.L.	Section A	Initial Chief Eng	Action Description Chief Eng		Date	Secti	on C	Chief Eng	QC Inspector
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Page 2

April-13-12 10:41:23 AM

Work Order ID: 83170

\*83170\*

Location

Parent Item:

D407-558-045

\*D407-558-045\*

Parent Item Name: Single Cargo Mirror Assembly, 6 inch Round

**Start Date:** 13/04/2012

**Required Date: 27/04/2012** 

Start Qty: 3.00

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Required Qty: 3.00

D2054

\*D2054\*

Bushing

Manufactured

110

Each 38.0000 2

(3) FF 12-04-27

D2055

Manufactured No GA 67784 79836

8 30 110 Each

Loc Qty

38

23.0000

Loc Code

(3) 88 12-04-27

\*D2055\* Clamp

Manufactured

Location Loc Otv Loc Code GA 23 71890 2 21 77110 110 Each

15.0000 \*\*

FF 12-04-27

Bell Crank

D2056

D2057

Manufactured No Location Loc Qty Loc Code GA 15 71102 2

71889 13 110 Each

28.0000

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\*D2057\* Plug

> Location GA

71888

75070

Loc Qty 28 8 20 Loc Code

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•	Picklist Print April-13-12 10:41:23 AM							Page 3
	Work Order ID: 83170	·	*8	3170*	·— · · ·—— · · ·			
	Parent Item: D407-558-045 Parent Item Name: Single Cargo Mirr	or Assembly, 6 inch	*D	)407-558-04	45*	Start	<b>Date:</b> 13/04/2012	Required Date: 27/04/2012
		• •					<b>Qty:</b> 3.00	Required Qty: 3.00
χ	*D2065	Manufactured	No		110 Each	2.0000 <b>*</b>	1 3	(3) FF 12-04-27
a	Arm			Location ST229 83168	Loc Qty 2	Loc Code	_/	
	MS21042L3 *MS21042L3*	Purchased	No	<u>73053</u>	2 110 Each	2,981.000	2 6 k	3) FF12-04-27
	Nut			<u>Location</u> ST300	<u>Loc Oty</u> 2981	Loc Code		0
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	MS27039-1-18	Dunchanad	No	119017 119075 121349	1759 166 1000	40.0000	6	
	*MS27039-1-18*	Purchased	No		110 Each	40.0000 **	2 6	3 FF 12-04-27
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Picklist Print April-13-12 10:41:23 AM										Page 4
Work Order ID: 83170		*2	3170*	·						
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Parent Item Name: Single Cargo Mirr	or Assembly, 6 inch	Round	)4(11 -:);)M-(	14:)		S	tart Date:	13/04/2012	Required	Date: 27/04/2012
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*AN3-4A*							**		23	
3			Location	<u>L</u> c	e Qty	Loc Code				
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ANE26 1022P0			120770		200					
AN526-1032R9	Purchased	No		125	Each	136.0000	4	12		
*AN526-1032R9*							**		93	<del>2</del>
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D2053	Manufactured	No		125	Each	14.0000	I	3 V	1771	WIATOIL
*D2053* Mounting Bracket							**	12/04	20	12/04/27/
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April-13-12 10:41:24 AM			Shop Pa	cket Print						Page 4

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Picklist Print April-13-12 10:41:24 AM							<i>;</i>	Page 5
Work Order ID: 83170	·	*Q	3170*		·			
Parent Item: D407-558-045				1/5*				
Parent Item Name: Single Cargo M	irror Assembly, 6 inch	Round	, <del></del> (	,4.,			Start Qty: 3.00	Required Date: 27/04/2012 Required Qty: 3.00
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*D2067*							**	13 m
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*1):3/78-1*							** 1× 82(	12 8 B8301
			Location	<u>Lo</u>	<u>Oty</u>	Loc Code		
			ST228		1			
M6210421.2		<b>N</b> 1	71205		1		1×11203	
MS21042L3 ·	Purchased	No		125	Each	2,981.000	•	,
3*MS210421 3*							** - · <del>-</del> · · · · · · · · · · · · · · · · · · ·	JB 12/04
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Picklist Print

April-13-12 10:41:24 AM

Work Order ID: 83170

\*83170\*

Parent Item Name: Single Cargo Mirror Assembly, 6 inch Round

\*D407-338-045

\*D407-558-045\*

**Start Date:** 13/04/2012

**Required Date: 27/04/2012** 

Start Qty: 3.00

Required Qty: 3.00

MS21919-DG5

Purchased

No

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Each

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Page 6

\*MS21919-DG5\*

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## DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D206-558 REV. C OR EARLIER AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D206-558 REV. 0

REF: CANADIAN STC SH92-17 REF: FAA STC SH1031NE

IT HAS COME TO DART'S ATTENTION THAT A LONGER CABLE IS REQUIRED WHEN INSTALLING THE DART D206-558-041/-043 SINGLE/DUAL CARGO MIRROR ASSEMBLY ON A BHT 407 AIRCRAFT. THIS IS DUE TO THE MIRROR INSTALLATION BEING MOVED FORWARD TO PICK UP ON EXISTING SET OF SCREW HOLES ON THE BELLY OF THE AIRCRAFT AS SHOWN IN FIGURE 3 OF INSTALLATION INSTRUCTIONS D206-558 REV. C OR EARLIER.

IT IS ACCEPTABLE TO REPLACE THE D2071 CABLE ASSEMBLY WITH D2071-3 CABLE ASSEMBLY. FURTHERMORE, IT MAY BE NECESSARY TO REPLACE THE MS35489-9 GROMMET WITH MS35489-67 GROMMET TO ACCOMODATE A POSSIBLE VARIANCE IN MATERIAL THICKNESS ON A BHT 407 AIRCRAFT AS OPPOSED TO A BHT 206 AIRCRAFT.

CUSTOMERS INSTALLING EXISTING D206-558-041/-043 KIT ON A BHT 407 AIRCRAFT MUST PROCURE THE FOLLOWING KIT FROM DART:

#### **DSI 9436-011 PARTS LIST:**

Qty -011	Part Number	Description					
Х	DSI 9436-011	CABLE CHANGE KIT					
1	D2071-3	CABLE ASSEMBLY (REPLACES D2071)					
1	MS35489-67	GROMMET (REPLACES MS35489-9)					

INSTALL THE D2071-3 CABLE ASSEMBLY AND MS35489-67 GROMMET PER INSTALLATION INSTRUCTIONS D206-558 REV. C OR EARLIER AND MAINTAIN PER ICA-D206-558 REV. 0.

CANADA DEPARTMENT OF TRANSPORT AIRCRAFT CERTIFICATION **BRANCH** DAO # 01-O-01

D. SHEPHERD (DE # 02)

DATE: 08.12.04 CERT, NO.: SH92-17 ISSUE NO .:

**NEW ISSUE** MR 08.12.04 REV **DESCRIPTION** DATE DESIGN DART AEROSPACE LTD DRAWN HAWKESBURY, ONTARIO, CANADA CHECKED ρĮ DRAWING NO. REV. A MFG. APPR. DSI 9436 SHEET 1 OF 2 APPROVED TITLE **SCALE** DE APPR CABLE CHANGE DATE 08.12.04

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SUBJECT TO AMENDMENT

FROM THIS POINT FORWARD, CUSTOMERS SHOULD ORDER D407-558-045/-047 IN LIEU OF D206-558-041/-043 WHEN PROCURING SINGLE/DUAL MIRRORS FOR BHT 407 MODELS. AMEND SECTIONS 4.0 AND 5.0 OF INSTALLATION INSTRUCTIONS D206-558 REV. C OR EARLIER AND 25.3 AND 25.4 OF ICA-D206-558 REV. 0 AS FOLLOWS:

# 4.0 WEIGHT AND BALANCE (D206-558 REV. C OR EARLIER) 25.3 WEIGHT AND BALANCE (ICA-D206-558 REV. 0)

Installation		LA	TERAL	LONGITUDINAL		
	Weight	Arm	Moment	Arm	Moment	
D206-558-041 Bell 206A/B/L/L1/L3/L4	2.4 lb	+5.0 in	+12.0 in-lb	+14.8 in	+35.5 in-lb	
D206-558-043	1.09 Kg 3.0 lb	+0.13 m	+0.14 m-Kg	+0.38 m	+0.41 m-Kg	
Bell 206A/B/L/L1/L3/L4	1.36 Kg	0.0 m	0.0 in-lb 0.0 m-Kg	+14.8 in +0.38 m	+44.4 in-lb +0.52 m-Kg	
D407-558-045	2.4 lb	+5.0 in	+12.0 in-lb	+14.8 in	+35.5 in-lb	
Bell 407	1.09 Kg	+0.13 m	+0.14 m-Kg	+0.38 m	+0.41 m-Kg	
<b>D407-558-047</b> Bell 407	3.0 lb	0.0 in	0.0 in-lb	+14.8 in	+44.4 in-lb	
DCII 407	1.36 Kg	0.0 m	0.0 m-Kg	+0.38 m	+0.52 m-Kg	

#### 5.0 PARTS LIST (D206-558 REV. C OR EARLIER) 25.4 PARTS LIST (ICA-D206-558 REV. 0)

Qty -041	Qty -043	Qty -045	Qty -047	Part Number	Description
Х				D206-558-041	SINGLE CARGO MIRROR ASSEMBLY
	X			D206-558-043	DUAL CARGO MIRROR ASSEMBLY
		X		D407-558-045	SINGLE CARGO MIRROR ASSEMBLY
			Х	D407-558-047	DUAL CARGO MIRROR ASSEMBLY
1					SOME SAILOO MINKOK ASSEMBLY
2	2	1	2	D2011-101	MIRROR ASSEMBLY
	2	2	2	D2052	BRACKET
11	1	11	11	D2053	BRACKET
2	2	2	2	D2054	BUSHING
1	1	1	11	D2055	CLAMP
_ 1	1	1	11	D2056	BELLCRANK ASSEMBLY
_1_		1		D2057	PLUG
1		1		D2065	ARM
	1		_ 1	D2066	ARM
11	1	1	1	D2067	CONNECTOR
1	1			D2071	CABLE ASSEMBLY
		1	1	D2071-3	CABLE ASSEMBLY
1	2	1	2	D3014-1	* LOCKNUT
_1	1	1	1	D3778-1	BRACKET
4					DIV (ORE)
4	4	4	4	AN3-4A	BOLT
1		4	4	AN526-1032R9	SCREW
	2	1	2	AN960JD416L	* WASHER
4	4	4	4	AN960JD10	WASHER
6	6	6	6	AN960JD10L	WASHER
3	3	3	3	MS21042-3	NUT (or MS21042L3)
2	2	2	2	MS21919DG5	CLAMP
2	2	2	2	MS27039-1-18	SCREW
1	1			MS35489-9	GROMMET
		1	_ 1	MS35489-67	GROMMET

\* INCLUDED AS PART OF D2011-101 MIRROR ASSEMBLY

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-0-01

BY: D. SHEPHERD (DE # 02)

DATE: 08.12.04

CERT. NO.: SH92-17

ISSUE NO.: 7

DESIGN DART AEROSPACE LTD DRAWN HAWKESBURY, ONTARIO, CANADA CHECKED DRAWING NO. REV. A MFG. APPR. DSI 9436 SHEET 2 OF 2 APPROVED TITLE SCALE DE APPR. CABLE CHANGE COPYRIGHT © 2008 BY DART AEROSPACE LTD

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831 to

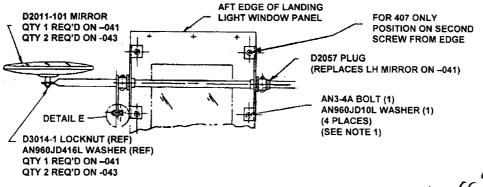
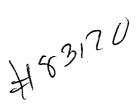


Figure 3: - View C: Looking Down on Mirror Installation (D206-558-041 Mirror Shown)



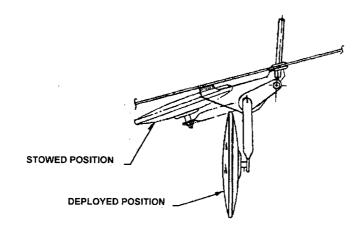


Figure 4: - Detail D: Looking from Side on Mirror Installation (D206-558-041/-043 Mirror Shown)

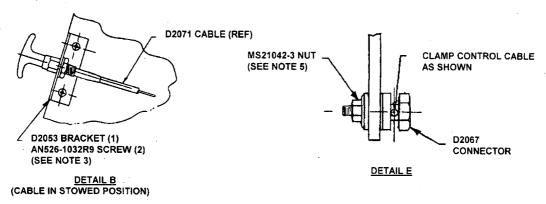


Figure 5: - Details B and E on Mirror Installation (D206-558-041/-043 Mirror Shown)

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Revision: C

Date: 01.10.03

Dart	Aeros	pace i	Ltd
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W/O:			W	ORK ORDER CHANG	ES					
DATE	STEP	PROCEDURE CHANGE				Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
•										
										• .
Part No	:	PAR #:	Fault Cat	egory:	_ NCI	R: Yes	No <b>DQ</b>	A:	Date:	
Resolution:			Disposition: QA			A: N/C Closed: Date:				
NCR:			WORK ORE	DER NON-CONFORMA	ANCE	(NCR	)			
	Description of NC	Corrective Action Section B			Verificati		ation	on Approval	Approval	
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NOTE: Date & initial all entries

AMEND SECTIONS 4.0 AND 5.0 OF INSTALLATION INSTRUCTIONS D206-558 REV.C OR EARLIER AND SECTIONS 25-3 AND 25-4 OF ICA-D206-558 REV.D AS FOLLOWS:

## 4.0 WEIGHT AND BALANCE (D206-558 REV. C OR EARLIER) 25.3 WEIGHT AND BALANCE (ICA-D206-558 REV. 0)

	1	LATERAL		LONGITUDINAL		
Installation	Weight	Arm	Moment	Arm	Moment	
D206-558-041	2.4 lb	+5.0 in	+12.0 in-lb	+14.8 in	+35.5 in-lb	
Bell 206A/B/L/L1/L3/L4	1.09 Kg	+0.13 m	+0.14 m-Kg	+0.38 m	+0.41 m-Kg	
D206-558-043	3.0 lb	0.0 in	0.0 in-lb	+14.8 in	+44.4 in-lb	
Bell 206A/B/L/L1/L3/L4	1.36 Kg	0.0 m	0.0 m-Kg	+0.38 m	+0.52 m-Kg	
<b>D407-558-045</b>	2.4 lb	+5.0 in	+12.0 in-lb	+14.8 in	+35.5 in-lb	
Bell 407	1.09 Kg	+0.13 m	+0.14 m-Kg	+0.38 m	+0.41 m-Kg	
D407-558-047	3.0 lb	0.0 in	0.0 in-lb	+14.8 in	+44.4 in-lb	
Bell 407	1.36 Kg	0.0 m	0.0 m-Kg	+0.38 m	+0.52 m-Kq	

#### 5.0 PARTS LIST (D206-558 REV. C OR EARLIER) 25.4 PARTS LIST (ICA-D206-558 REV. 0)

Qty -041	Qty -043	Qty -045	Qty -047	Part Number	Description	
Х				D206-558-041	SINGLE CARGO MIRROR ASSEMBLY	
	X			D206-558-043	DUAL CARGO MIRROR ASSEMBLY	
		X		D407-558-045	SINGLE CARGO MIRROR ASSEMBLY	
			X	D407-558-047	DUAL CARGO MIRROR ASSEMBLY	
1	2	1	2	D2011-101	MIRROR ASSEMBLY	
2	2	2	2	D2052	BRACKET	
1	1	11	1	D2053	BRACKET	
2	2	2	2	D2054	BUSHING	
1	1	1	11	D2055	CLAMP	
1	11	1	1	D2056	BELLCRANK ASSEMBLY	
1		1		D2057	PLUG	
1		1		D2065	ARM	
	1		1	D2066	ARM	
1	11	- 1	<u>_</u> 1	D2067	CONNECTOR	
1	1			D2071	CABLE ASSEMBLY	
		1	1	D2071-5	CABLE ASSEMBLY	
1	2	1	2	D3014-1	*LOCKNUT	
1	1			D3778-1	BRACKET	
		51	1*	D3778-3	BRACKET	
4	4	4°	4	AN3-4A	BOLT	
4	4	. 4	4	AN526-1032R9	SCREW	
1	2	1	2	AN960JD416L		
4	4	4	4	AN960JD416L	*WASHER	
6	6	<u>- 6</u>	<u>.</u> .6	AN960JD10L	WASHER	
3	3	3	3	MS21042-3	WASHER	
2	2	2	2		NUT (or MS21042L3)	
2	2	2	2	MS21919DG5	CLAMP	
1	1	-		MS27039-1-18	SCREW	
		11 1777	1	MS35489-9	GROMMET	
		1.7	<u> </u>	MS35489-67	GROMMET	

\* INCLUDED AS PART OF D2011-101 MIRROR ASSEMBLY

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-0-01

BY: D. SHEPHERD (DE # 02)

DATE: 12,03,26
CERT. NO.: SH92-17
ISSUE NO.: 7

DESIGN	MB	DART AEROSPACE LTD				
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA				
CHECKED	1	DRAWING NO.	REV. A			
MFG. APPR.	N/A <sub>y</sub>	DSI 9604	SHEET 3 OF 3			
APPROVED	AR	TITLE	SCALE			
DE APPR.	#	MIRROR UPGRADE	NTS			
DATE 12.0	3.26	COPYRIGHT @ 2012 BY DART AEROSPACE LTD THIS DOCLMENT IS PRIVATE AND COMPIDENTIAL AND IS SUPPLIES OUT THE SUPPLES CONDITION THAT IT IS NOT TO BE USED FOR ANY PRIPAGES OR COMPIDED OR COMMANICATED TO ANY OTHER PERSON WITHOUT				